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# **OPFOR Tactical Engagement Simulation (TES) Program**

**CPT Ed Shepherd-ATSC  
Sam Jones-STRICOM**





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# Outline

- Updates
  - OPFOR Surrogate Vehicle OSV/BMP-2
  - OPFOR Surrogate Tracked Vehicle
  - OPFOR Aviation
  - OPFOR Surrogate Wheeled Vehicle
- Training System Acquisition Process
- Conclusion





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# OPFOR TES Program Component Updates





# OSV



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- 85 currently fielded at NTC
- 332 vehicles programmed
- 289 vehicles funded
  - (NTC-160/ JRTC-36/CMTC-93)
- CMTC requirement 136
- All but 43 CMTC vehicles funded in FY 06-07 on TMA
- M32 Sight needs reengineering/replacement





# OST V



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- Funded beginning FY02 on TMA
- Current Requirement:
  - NTC-63, CMTC/JRTC 41 each
- Design based on OSV variant
- Initiate production in FY 02
- Replicated weapons
  - 125mm main gun
  - 12.7mm MG
  - 7.62mm coaxial MG





# OPFOR Aviation



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- Unfunded at priority 10.3 on TMA
- Capabilities Identified in ORD
  - Attack Helo
  - Assault Helo
  - Fixed Wing (New)
  - Unmanned Aerial Vehicle (UAV)
  - Cruise Missile?
- JWG 1 held 23-24 JAN
- Next Step: Feasibility Study  
2QTRFY02





# OSW V



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- Unfunded at priority 14.2 on TM
- Capabilities Identified in ORD
  - Armed Reconnaissance (AR)
  - Recon Surveillance and Target Acquisition (RSTA) Armored Anti-Tank (AAT)
  - Towed Anti-Tank (TAT)
  - Non-Line-Of-Sight-Anti-Tank (NLOSAT)
- Validated ORD staffed 20 SEP 00
- Feasibility Study







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How do CTCs get the  
training devices needed  
for OPFOR to perform its  
mission?







# Requirements Determinatio



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- **CTC Identifies Requirement**
- **TRADOC DCSINT Validates Requirement/Drafts need statement**
- **Validated requirement forwarded to Training Developer (ATSC)**
- **ATSC staffs MNS for approval through TRADOC**
- **Feasibility studies may begin once MNS approved**
- **MNS only needed for new mission or a program with ACAT I potential.**





# Requirements Documentati on



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- **ATSC Drafts ORD**
- **STRAWMAN ORD staffed with DCSINT, involved MACOMs, schools, and CTCs**
- **Joint Working Group (JWG 1) held**
  - Define acquisition strategy
  - Establish milestones
  - Refine STRAWMAN ORD
- **JWG 2 held**
  - Present technical alternatives
  - Logistical support alternatives
  - Proponent selects technical and support alternatives
- **Process is iterative and last 6-9 months**





# Acquisition/Operational life



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- **ORD gets approved (HQ TRADOC/DCST)**
- **ORD forwarded to MATDEV (STRICOM)**
- **STRICOM**
  - **Creates design specifications from ORD**
  - **Tests, acquires and produces device**
- **ATSC serves as user representative**
- **Materiel meets ORD requirements**
- **Governments accepts device**
- **Operational life begins**
- **CTC get its new device**





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# Funding Process Outline

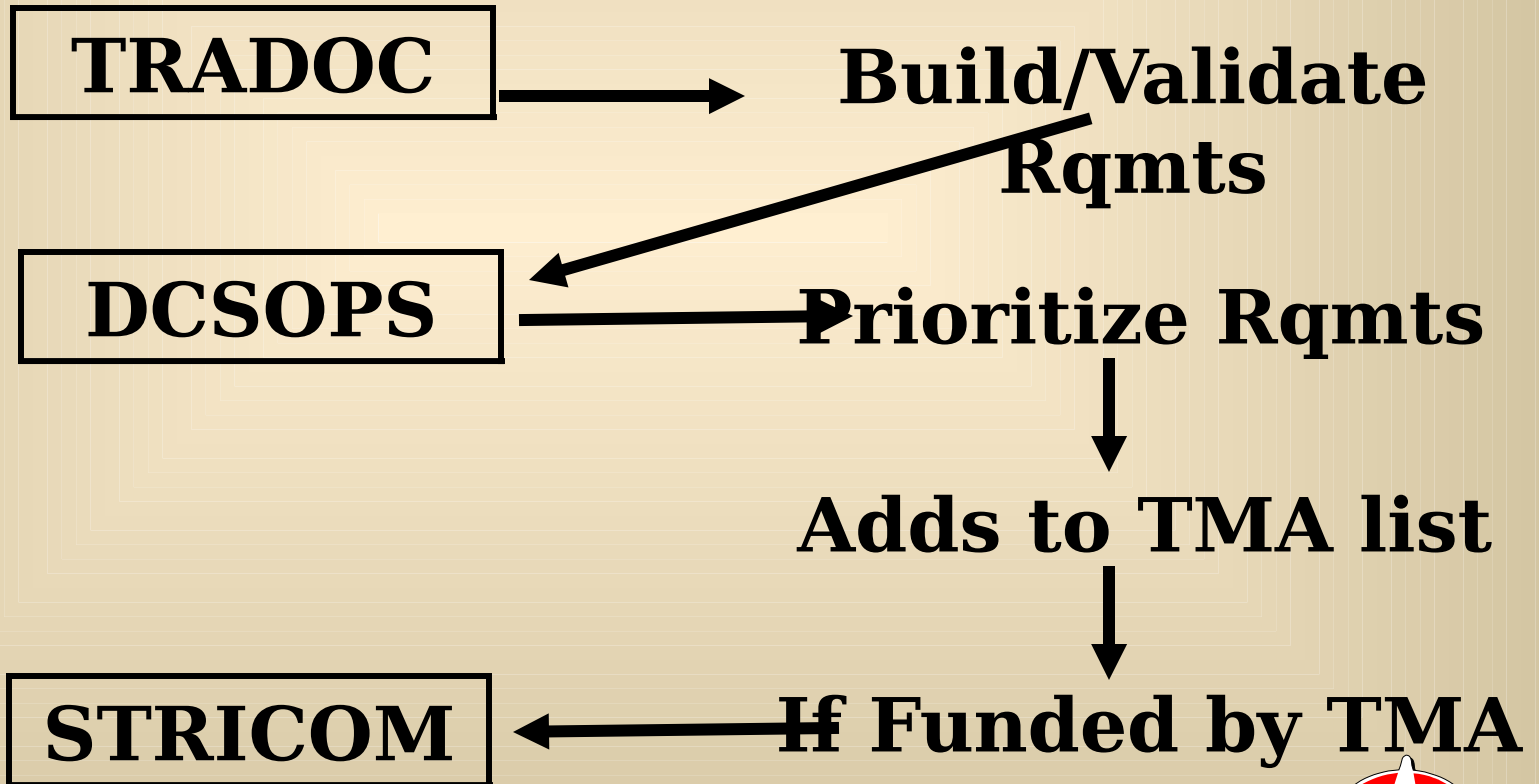




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CTC  
S

MNS/OR  
D



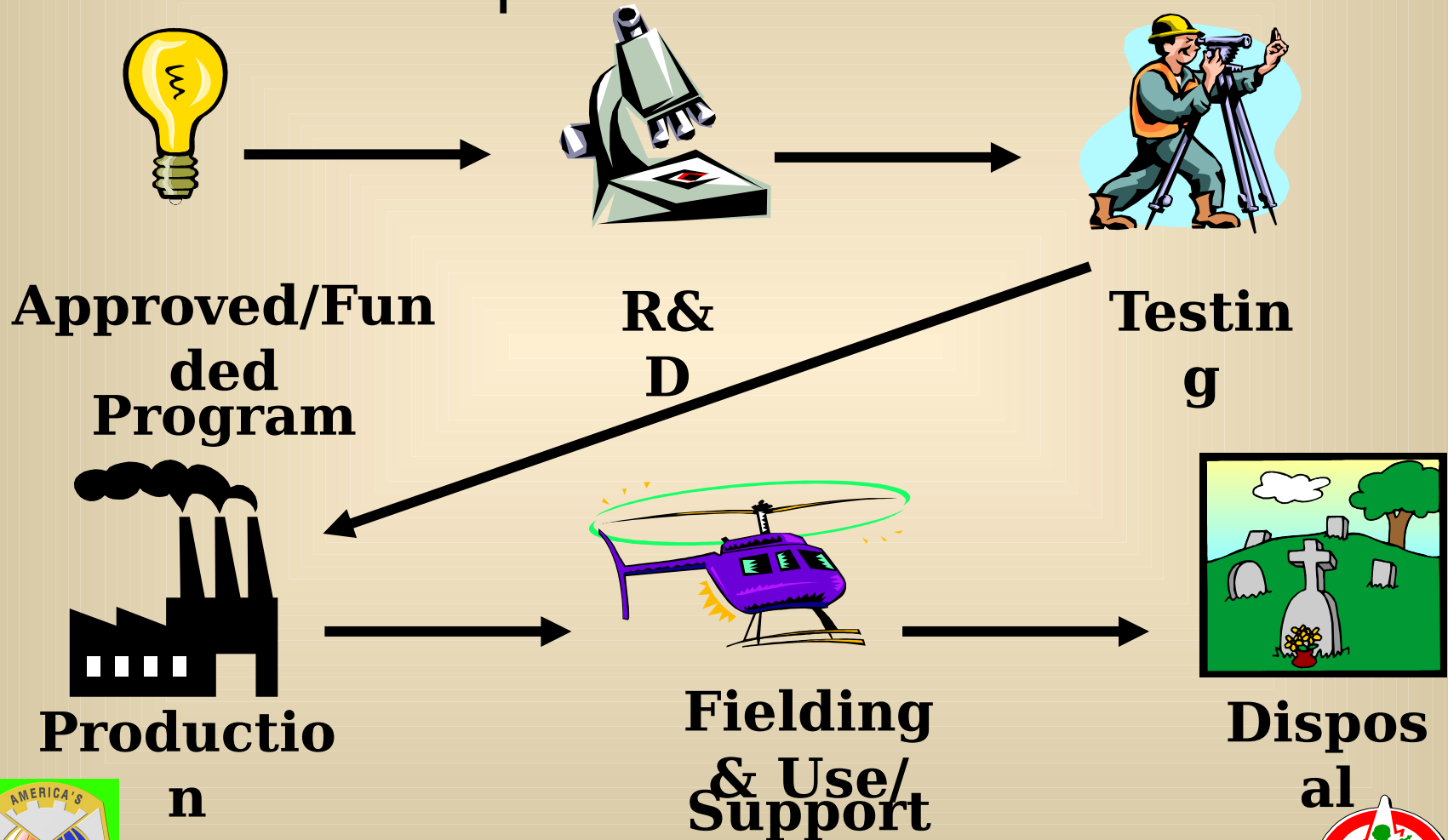




# Simplified Training System Acquisition Process



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# QUESTIONS



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**JRTC**



**NTC**





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# Contact Information

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# Additional Information



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**The following slides serve as additional information but will not be briefed.**





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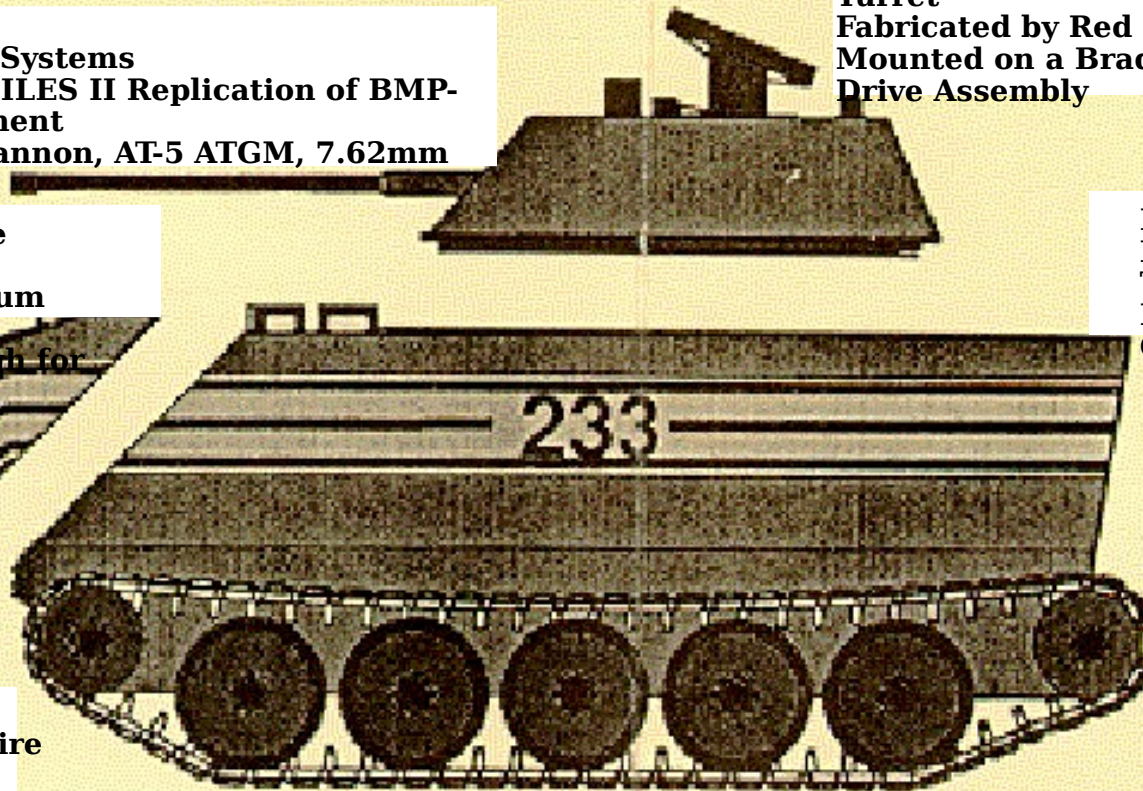
# OSV Statistics

**Weapon Systems**  
SAWE/MILES II Replication of BMP-  
2 Armament  
30mm cannon, AT-5 ATGM, 7.62mm  
coax MG

**Front and Side**  
VISMOSDs  
Heavy Aluminum  
Plating  
Rugged Enough for  
CTC Use

**Turret**  
Fabricated by Red River Army Depot  
Mounted on a Bradley Turret basket and  
Drive Assembly

**Rear Extension**  
M113A3 External Fuel  
Tanks  
Extended Crew  
Compartment



**Vehicle Stats:**

- Bradley M2A2 Fire Control
- Excess M60 Sights
- 3 man crew
- Carries 5 dismounts
- Max Speed 40 MPH

**BASIC M113A3  
Chassis**

<http://www.stricom.army.mil/PRODUCTS/OSV/>



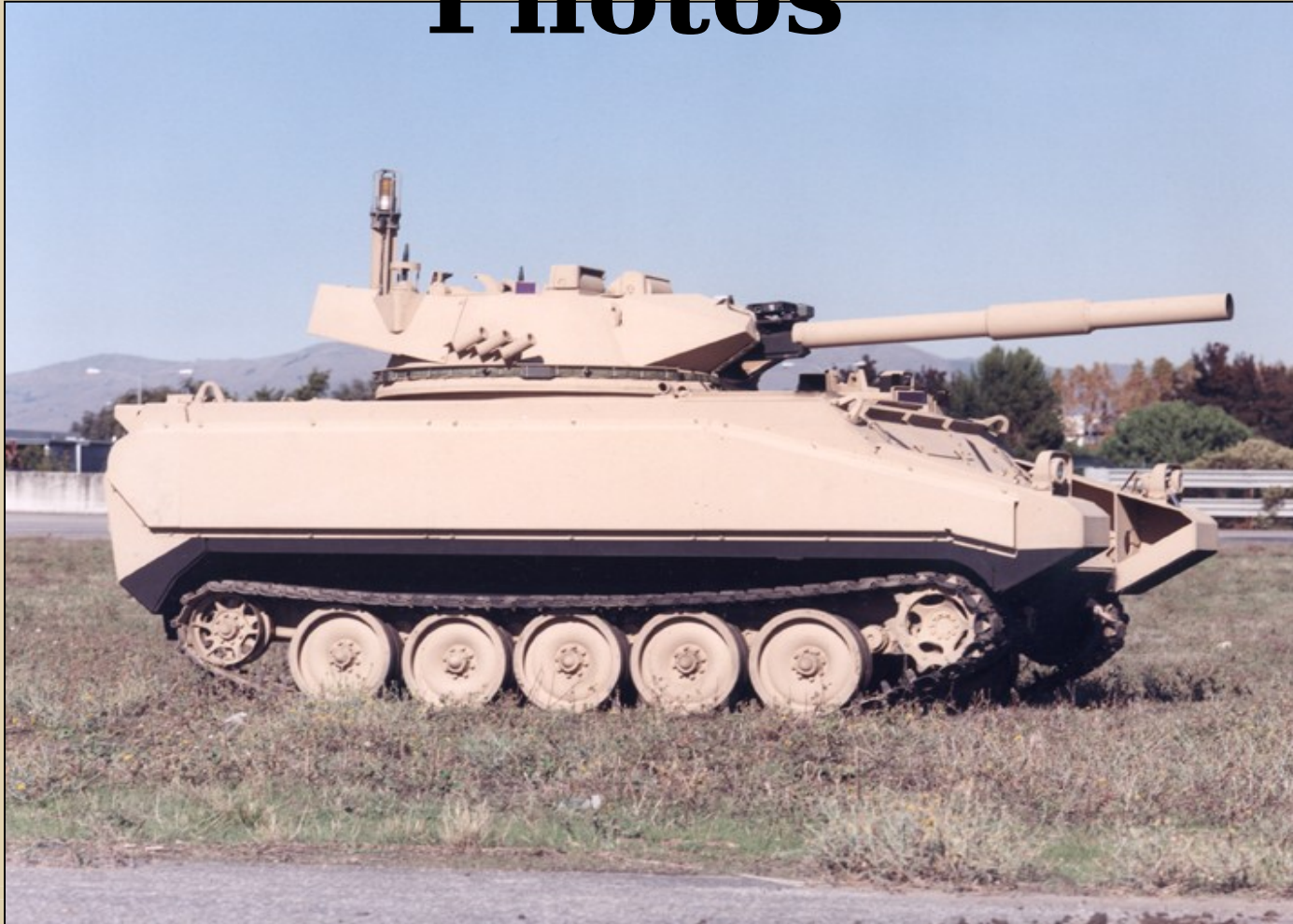




# OSTV Photos



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# OSTV Photos



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# OPPOSING FORCES



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## M113 BMP-2 OSV



Simulates BMP-2 at the Maneuver Combat Training Centers (CTCs)

Replaces Current M551 BMP Fleet

Carries 5 Dismount Troops

Maintains M113 Driver/Bradley Commander & Gunner Skills

Reduces O&S Costs/ Environmental Impact



- 100% Commonality of Functional Components
- Common M113A3 Chassis
- 6V53T 275BHP Detroit Diesel Engine
- M2A2 Turret Drive/Fire Control
- M32E1 Sight, Commander
- AN/VSG-2 Tank Thermal Sight, Gunner
- Max Speed 41MPH
- Weapons Simulated by Tactical Engagement Simulation



## Benefits

- » Cost effective OPFOR that fully challenges Force XXI units day and night
- » Provides a realistic threat to enhance the training effectiveness for the

Army Warfighter and bring Army training standards to a higher level

## OPFOR Main Battle Tank (Proposed)



Simulates OPFOR MBT at the Maneuver Combat Training Centers (CTC)

Replaces Current M551/M60 OPFOR MBT Fleet

Mobility characteristics approximating those of the M551 OPFOR MBT

Visual recognition at 1000 Meters different from U.S. Counterpart



**" Who Trains,**

